

## The Federal Energy Management Program

*The Department of Energy's Federal Energy Management Program works to reduce the cost and environmental impact of the Federal government by advancing energy efficiency and water conservation, promoting the use of distributed and renewable energy, and improving utility management decisions at Federal sites.*

Energy management is one of the most challenging tasks facing today's Federal facility manager. Sound energy management includes using energy efficiently, ensuring reliable supplies, and reducing costs wherever possible. And now, more than ever before, the Federal government—the largest single energy consumer in the United States—has both a tremendous opportunity and a clear responsibility to lead the nation by example to greater energy efficiency.

In fact, this Federal role is included in the President's National Energy Policy. In the policy, the President calls for America to modernize conservation efforts, increase energy supplies, "accelerate the protection and improvement of the environment, and increase our nation's energy security." The President also directs heads of executive departments and agencies to "take appropriate actions to conserve energy use at their facilities to the

maximum extent consistent with the effective discharge of public responsibilities."

The government is making considerable progress in this effort. Despite energy bills that total approximately \$4 billion annually for Federal buildings and other facilities, the government's building-related energy costs have actually dropped more than 20% per square foot since 1985, thanks in large part to the work of the U.S. Department of Energy's (DOE's) Federal Energy Management Program (FEMP).

**DOE FEMP works with facility managers, engineers, architects, contract specialists, and utilities to save energy and money at Federal facilities.**

Chartered in 1973, FEMP's mandate is to lead the government toward more efficient use of energy resources. And FEMP's challenge is to help agencies address their most pressing energy management concerns with smart solutions that result in significant savings to taxpayers.

### FEMP Services

FEMP can help Federal facility and energy managers achieve greater energy efficiency and cost-effectiveness in areas like these:

- New construction
- Building retrofits
- Equipment procurements
- Operations and maintenance (O&M)
- Utility management

FEMP's services also help agencies obtain innovative technologies, leverage new partnerships with the private sector, set an example for the nation in energy management, and, as a result, improve our energy security and the environment. These services



## Program Overview

### Benefits

FEMP's services benefit facility managers, Federal agencies, and the nation in many ways. These services:

- Demonstrate Federal leadership in smart energy management
- Save taxpayer dollars through guaranteed energy cost savings
- Renew and rejuvenate Federal buildings and related infrastructure at minimal cost to agencies
- Protect air quality and conserve water
- Contribute to the nation's energy and economic security
- Increase market demand for advanced energy technologies
- Help to provide emergency power during outages
- Enhance energy supplies and improve reliability through distributed energy resources
- Free up resources for other agency needs
- Educate Federal workers and the public about smart energy choices



Kenneth Shipp, U.S. DOE/PIX10854

U.S. Department of Energy

Office of Energy Efficiency and Renewable Energy



can be grouped into four main areas: financing, technical assistance, outreach, and policy.

Financing services help Federal agencies leverage funds through new financing partnerships with the private sector for energy efficiency improvements. Technical assistance allows agencies to take advantage of innovative technologies and training opportunities. Outreach helps agencies learn about new energy-saving strategies, gain recognition for outstanding energy achievements, and keep current on the government's progress in meeting mandated energy management goals and challenges. Policy-related activities ensure coordination among the many agencies working to meet national energy-use goals.

***"FEMP will continue to provide timely guidance, education, technical advice, and outreach materials as we reaffirm our commitment to lead by example."***

—Elizabeth Shearer, Director,  
Federal Energy Management Program

### Financing

Agencies need dollars to make projects happen. FEMP provides expert assistance to agencies seeking project financing through methods such as these:

- Energy Savings Performance Contracts (ESPCs)
- Utility Energy Services Contracts (UESCs)
- Rebates
- Public benefits funds

ESPCs allow private energy service companies (ESCOs) to fund the capital costs of energy- and

water-saving equipment and renewable energy systems at Federal facilities. The ESCO guarantees a fixed amount of energy cost savings throughout the term of the contract, and is repaid directly from the agency's cost savings. FEMP's Super ESPCs allow agencies to negotiate with preselected ESCOs, saving time and money. FEMP also assists agencies with the measurement and verification requirements of ESPCs.

With its utility partners, FEMP also helps agencies take advantage of Utility Energy Services Contracts (UESCs) that offer long-term savings through multi-year contracts. Estimates indicate that FEMP's utility-related activities will leverage roughly \$1 billion for energy projects between 1995 and 2005. FEMP can also assist agencies in obtaining state- or utility-sponsored rebates for energy-efficient improvements, and in applying for public benefits funds set aside to promote energy efficiency.

### Technical Assistance

FEMP helps Federal energy managers identify, design, and implement new construction and facility improvement projects. These projects can incorporate energy efficiency, renewable energy, distributed energy technologies, sustainable design practices, state-of-the-art lighting, and water-saving technologies. FEMP provides unbiased, expert technical assistance in areas such as these:

- Energy and water audits for buildings and industrial facilities
- Peak load management
- Whole-building design and sustainability
- Renewable energy technologies
- Distributed energy resources
- Combined heat and power technologies
- Energy-efficient products
- Laboratory design
- New technology deployment

FEMP also provides analytic software tools for project screening to help agencies choose the most effective energy and water project investments. To



**FEMP helps agencies take advantage of advanced energy technologies like these microturbines.**

Capstone Turbine Corp./PIX08130



Warren Gretz, NREL/PIX06448

**FEMP staff help to develop innovative project financing, such as ESPCs and UESCs, to reduce Federal energy bills and O&M costs.**

learn from experts first-hand, Federal employees and others can enroll in FEMP's high-quality training programs. These technical workshops cover areas such as project financing, life-cycle costing, O&M, and sustainable design.

### Outreach

FEMP's communications and recognition programs help to heighten Federal employees' awareness of the benefits of energy efficiency, and they reward exemplary energy leadership. Outreach efforts include:

- *FEMP Focus* newsletter
- FEMP's Web site and Information Clearinghouse
- *You Have the Power* campaign
- Annual awards, workshop, and exposition

The *FEMP Focus* newsletter goes out eight times a year to nearly 10,000 Federal energy and facility managers, procurement officials, and others. In FY 2001, more than 2.2 million people visited the FEMP Web site ([www.eren.doe.gov/femp/](http://www.eren.doe.gov/femp/)) for information needed to meet their agency's efficiency goals. FEMP's Information Clearinghouse (800-363-3732) sends timely information to thousands of people each year.

Twenty Federal agencies actively participate in FEMP's *You Have the Power* awareness campaign. The campaign disseminates timely and topical information through handouts, posters, special publications, and other targeted outreach materials.

FEMP's awareness and awards programs recognize individuals, groups, and agencies for their outstanding contributions to energy efficiency, water conservation, and the use of advanced and renewable energy technologies in Federal facilities. At FEMP's annual workshop and exposition—co-sponsored by the Department of Defense and the General Services Administration—expert speakers, educational sessions, and exhibits provide information to more than a thousand Federal attendees.

In 2001, eighteen exemplary facilities were designated Federal Energy Saver Showcases. Annual Federal Energy and Water Management Awards were presented to 43 individuals, small groups, and organizations for the twentieth year. And Presidential Awards for Leadership in Federal Energy Management, presented in cooperation with the Office of Management and Budget, honored outstanding Federal energy management teams from the Department of Defense, the United States Postal Service, and the National Aeronautics and Space Administration.



Vice President Cheney congratulates staff of the U.S. Postal Service for significant energy and cost savings, which merited a 2001 Presidential Award for Leadership in Federal Energy Management.

### Policy

The Energy Policy Act of 1992, recent Executive Orders, and Presidential Directives all require Federal agencies to reduce their energy use by 35% by 2010 in comparison to 1985 levels. Federal agencies rely on effective coordination and sound guidance to help them meet this requirement. FEMP reports agencies' progress annually, manages interagency working groups, and offers policy guidance and direction. Policy efforts include:

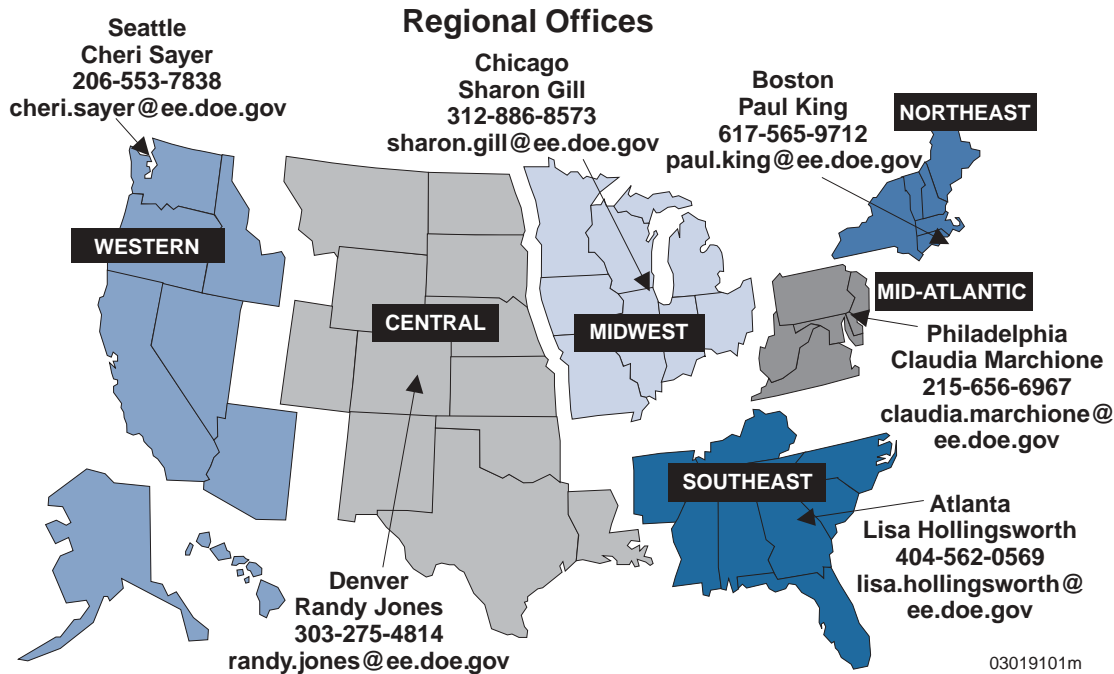
- Annual Report to Congress and the President
- Interagency Federal Energy Management Task Force
- Policy guidance
- Legislative updates and tracking

FEMP is also the lead agency in coordinating activities of the Federal Energy Management Advisory



The Executive Branch directs Federal policy on energy efficiency; here, Energy Star®-compliant lighting is illuminating the White House.





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DOE regional representatives—your first contact for expert guidance and energy-saving solutions.

Committee, which provides advice on a broad range of topics. The committee considers and advises on such important issues as expanding Federal use of ESPCs and UESCs, designing sustainable buildings and using advanced energy technologies.

Please contact FEMP—either at DOE Headquarters or through your DOE Regional Office FEMP representative (see map)—for more information. Your leadership in energy management is vital to the future of America.



Bob Madani for DOE FEMP/PIX10726

This thin-film photovoltaic array at the Suitland Federal Center in Maryland—the largest of its kind in the United States—should save nearly \$60,000 in electricity costs every year.



Robb Williamson/PIX09259

FEMP helps agencies reduce O&M costs, among other services; here, a Zion National Park staff member checks an energy management control system.

### For More Information

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